

LIE DETECTOR IS UNDERGOING TEST

Success Depends on Physical Reaction to Emotional Disturbances

EFFECT OF REPRESSION

Not All Conclusive, but Records May Be as Aid to Other Evidence

By ELLIS H. MARTIN.
BERKELEY, Cal., Aug. 12.—What will the invention of the "lie detector" mean to criminal investigation?

This question was asked Chief of Police August Vollmer, head of the only police department in the world employing the device, and in whose department it was worked out by Dr. J. A. Larson, one of Vollmer's superiors, who is a university graduate and a scientist.

It will eliminate conviction of the innocent and insure the conviction of the guilty, said Chief Vollmer. "It will put an end to spurious cases and eliminate the long and costly legal contests which ensue in such cases."

It will assist in putting to an end the theory of documents and material in settling civil cases in which deception figures—"If it works out."

And it is upon this fact that Doctor Larson is now working.

Already hundreds of tests have been made. These are being studied, catalogued and classified. Thousands of additional tests are to be made in the near future. These will in turn be classified and studied. And when hundreds of thousands of records have been made Doctor Larson believes the test will be so standard that it will be as infallible as the truthfulness of statements made by persons tested by the "lie detector."

Has Scientific Name.

Scientifically the use of the "lie detector" is known as a deception test.

The machine evolved by Doctor Larson permits the taking of a continuous record of the respiratory and circulatory systems of a person while he is answering questions. The apparatus includes a sensitized recording strip moving on a drum, a sphygmomanometer to record the blood pressure and a chronograph to measure the time in fifths of seconds or greater intervals, while the reaction time is further obtained by the use of a signal magnet.

Since deception plays such an important role on the witness stand and in criminal investigation, it is imperative that the criminologist should become familiar with some of its manifestations and methods employed to study it," said Doctor Larson today.

The earliest account of the case of deception is in the Bible, where Solomon was called upon to decide which of two women claiming a child was lying. He settled the problem by ordering the child cut in two pieces. The liar maintained silence, while the real mother was willing to forego her claim. The Chinese made use of a sound physiological principle that fear may inhibit the salivary flow. The English had the system of the "ordeal" which further the modern method of the "third degree" is encountered.

Aside from humanitarian considerations, one important objection to the "third degree" is that cases have been known where innocent men have been broken under the strain and confessed to crimes of which they were innocent.

"The deception test we use is based upon the correlation between the physiological and emotional activities. A normal record is obtained without any stimulus, word or action. This is followed by a short, restful word preamble, while tracings are being recorded, after which a series of questions are given. The questions are very simple and direct and deal with indifferent matters as well as the subject under investigation."

"In every case of deception, as checked by the cardio-pneumo-graphic tracings and confession, there are marked changes in the records. The effect of the suppression or repression varies according to the temperament and physical character of the subject. There may be an increase or decrease in frequency, a marked depression or excitation or more or less summative effect."

"In all cases of deception yet encountered the curve differs from that of the control. The person who does not repress when questioned."

"Interesting records have been obtained with drug addicts. The transition from the very sick, morose, miserable individual to the cheerful person may be shown graphically by comparing the record of the same man before and after an injection of morphine or cocaine. This transition may occur within a few seconds."

"The 'lie detector' is in use daily in the Berkeley police department. The consent of the subject is always obtained. In most cases it is given readily."

The innocent are glad of an opportunity of clearing themselves. The guilty fear refusal. Its use runs the gamut of criminal investigation ascending the scale from the juvenile offender to the man charged with murder. Only recently has the means of reuniting an estranged father and son, clearing the latter's name of forgery."

Doctor Larson believes the day will come when the cardio-pneumo-graphic tracings and confession of the subject will be as evidence in courts of justice. To his mind the important thing is that they form a permanent record open to the interpretation of all who study such matters. The record is there to be read by all who will.

Scientific criminologists the world over are interested in the device. Recently a noted criminologist from Copenhagen visited the laboratory of Doctor Larson to see the machine and indicated that upon his return he will put into use a similar device. He arranged with Doctor Larson for the exchange of records so that the standardization of psychograms might be hastened. Outside police departments have called upon Doctor Larson to make tests in important murder cases. It was demonstrated at a recent international convention of police chiefs and was the subject of much interesting discussion.

GIVING THE WORLD WILD ANIMAL THRILLS



"ANNA MAY" BREAKS A WAY THROUGH THE JUNGLE



"MARY" WAS THE FIRST STAR TO PERFORM FOR THE MOVIES



TRUMAN VAN DYKE TRAZES AN ALLIGATOR—THIS IS CREDITED WITH BEING THE MOST DARING ACT EVER PERFORMED FOR THE MOVIES



HOW WOULD YOU LIKE TO TRUST THE AGES? ASH ELINOR FIELD



A FIGHT IN MID-AIR WITH A LEOPARD—HOW MARY EVINER WOULD HAVE THIS STUNT?

Copyright, 1922, by Joe Weil.
She is a true give animal. The director will not attempt the work. The average "extra" will not show up on the lot when the lions are to be let loose. The producer has a real job on his hands when he attempts to "cast" such a picture.

Why? you ask.
Says Miss Olga Celeste, the world's greatest animal trainer, "People think that the wild animals they see in pictures are tame. They believe we remove their teeth and claws to make them harmless. Nothing is further from the truth. Look!" She rolled up her sleeve and revealed a half dozen ugly scars on her arm. "Those are the marks of my pets," she laughingly confessed. "My leopards and my lions."

Col. William N. Selig was the first to feature jungle beasts in a photoplay. His famous zoo in Los Angeles houses no less than 700 animals from all quarters of the globe. This motion picture pioneer has produced several successful jungle films and at the same time the writer interviewed him was just completing a 15-episode serial, "The Jungle Goddess," in which over 400 of his animals were being used. He is perhaps the most experienced wild animal man in this country.

A Race for Life.
Arrangements were being made at the time to shoot a scene. There was a hurry and bustle of preparations and then the sounds died away to an ominous silence.

The director glanced about nervously.

"Get ready now," he warned. "If any of them get past that second rock let them have it!"

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Another Lion Act.
One scene, a mere 15 feet of film, that flashes off the screen in a few seconds is the result of a full week's work by the entire company. Elmer Field is one in the role of a little girl who is kidnapped and thrown into the basket of a balloon which, freed, drifts through the night until it is brought to earth in the jungle of Africa by a flaming arrow shot by a native chieftain. The girl is taken for a divinity sent from heaven and grows up as a jungle Elmer Field hesitated but the fraction of a second as she faced the monster lions.

"Hurry!" came the warning shout from Colonel Selig. Sheer will-

power made the girl turn. Then she raced for her life toward the jungle shrubbery in the distance. A race for life it was in truth. The three jungle beasts literally hurried themselves through the air to catch the girl before she could reach the safety cage hidden in the foliage. Its gate was only three-quarters closed when the first lion crashed against it.

Elmer Field had an her co-star in this picture Truman Van Dyke, a good-looking, red-headed Irishman. He was quite "new" in pictures and was willing to go to any risk to establish a reputation for himself. As to Miss Field she is a dare-devil by nature. Automobile racing and airplane are two of her hobbies. Going into an arena with the "wild ones" only offers her another opportunity to display her steel nerve.

Upon her right hand of the idol opens and the fingers close about the girl. She is lifted into the air and held there.

The scenario called for the climax of the episode at this point. A lion was to leap for her and be caught by the left hand of the idol. Here was a very perilous scene. To get double exposure was impossible. There could be no tricking of it. It just HAD to be real. The staff worked hour after hour and day after day before a lion was finally induced to jump just the way. When the beast finally did the right thing it made an angry reach for the intrepid film player who was barely two feet away from his jaws.

Wrestling an Alligator.
Truman Van Dyke plays the part of the Hero Dean, who is sent to the jungles to rescue the Goddess and bring her back to civilization. The chase takes him across Africa to India, then to China. When he reaches India with the girl a Rajah captures the pair and in order to keep the girl himself decides to do away with her champion Van Dyke is bound to a tree at the edge of an alligator swamp.

One of the alligators creeps from the water and begins to circle around the helpless man. Every now and then its great jaws open as it regards the defenseless creature. It is about to eat Van Dyke, by a superhuman effort, breaks his bonds and makes a leap for the reptile. No wit so happens that there is a

way in which a man may safely wrestle with an alligator. There are about two men in this country who have dared to try it. It is a very dangerous stunt for the man who knows his opponent. Think of a firm star trying it! There is a particular hold which one must get on the alligator's jaws and it must be just so. There is only one way in which one must tackle the beast if a death-dealing swing of the ponderous tail is to be avoided. The alligator man explained it all to Van Dyke. Then he gave a demonstration. Then the cameras started grinding. It was up to Van Dyke to show his nerve. He did! The result is the most daring fight scene ever screened.

A Strenuous Time.
In one scene a number of animals were let loose on the deck of a schooner. It was easy to drive the animals to the deck. It was very difficult to control them after they were there. To mix animals in any arena is taking the most daring of chances. There are bound to be fights. One can imagine what happened when lions, leopards and tigers were all sent down the same runway in the same scene. The trainers' whips were cracking continuously and they had to break in the scene a score of times to separate the beasts.

Danger Ever Present.
The animal trainer is ever in danger of attack. He must be prepared for lightning-like action. Take Miss Olga for instance. During the filming of an episode one of her leopards turned suddenly upon her. A trainer instinctively leaped to her aid. She leaped to one side as the brute hurled himself at her, fangs bared in an angry snarl. As the beast flew by Miss Olga's club came down with a resounding crack across its nose. "That's discipline," she explained. "One must never retreat from an animal. The danger was only momentarily over. The same mistake which warned her before guided her

again. Another leopard seeing the attack had crawled along a ledge and prepared for the spring. Miss Olga was a little too late this time. She did not see the beast but side-stepped. The claws of the spotted animal ripped across her right shoulder leaving a bloody smear in their path. The next moment she was whipping the same leopard. "It's all in the day's work," says Olga.

"Mary" and "Anna May." Wild animals are not the only ones that make good screen actors. Take "Mary" for instance. Mary is an almost human chimpanzee. She is called upon to do more stunts in this serial than any animal was ever expected to do before. She is the constant companion of Lady Betty and Dean in all their adventures. She rescues her from a boat going over the falls; she turns loose a wild animal aboard a transport; she frightens a little pickaninny and then pets it and comforts it until the tears stop flowing.

Then there's Anna May. Anna May is a great actress with a disposition like an angel. As Miss Olga would say, "When she's good, she's very, very good—but when she's bad—she's a real help anyone near her." She has appeared in many pictures and takes a prominent part in "The Jungle Goddess." In one episode she pulls a lion down from a rock and then stamps the life out of a "dummy" lion to finish the job for the screen. Anna May is an ultra modern young lady. She does the Greenwich Village Vamp one better. She chews tobacco! But she hates cigars, possibly because someone offered her one with the wrong end front, once upon a time. This wild animal director is always an optimist! If a tiger should happen to break loose and jump on him he'd probably yell with his dying breath to the cameramen: "GET THE CAMERA PAKE OUT—AND PUT IT IN THE NEXT EPISODE!"

According to a recent statement, the United States government is disposing of from \$20,000,000 to \$25,000,000 monthly of its surplus properties. It is estimated that the department has over \$400,000,000 worth of surplus to sell before the government can complete its sales program.

RUPTURE EXPERT HERE
Secley, Famous in This Specialty. Called to Tulsa.

F. H. Secley, of Chicago and Philadelphia, the noted truss expert, will personally be at the Tulsa Hotel and will remain in Tulsa Saturday and Sunday nights, August 12-13. Mr. Secley states: "The Spermatic Shield will not only retain any case of rupture perfectly, but contracts the opening in 19 days on the average case. It is a vast advancement over all former methods—exemplifying instantaneous effects immediately appreciable and withstanding any strain or position no matter the size or location. Large or difficult cases, or incisional ruptures (following operations) specially solicited. This instrument received the only award in England and in Spain, producing results without surgery, injections, medical treatments or prescriptions. Mr. Secley has documents from the United States government, Washington, D. C., for inspection. He will be glad to demonstrate without charge or fit them if desired. Business demands prevent stopping at any other place in this section."

P. S.—Every statement in this notice has been verified before the Federal and State Courts.—F. H. Secley.
Home Office, 117 No. Dearborn Street, Chicago.—Advertisement

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126 Oakland St., San Antonio, Texas.

Diminutive French Box Cars to Haul American Legion Delegates to Meet



NEW YORK, Aug. 12.—Traveling in box cars from all parts of the country, hundreds of members of the Society of Forty Men and Eight Horae, the American Legion's playground organization will come to the society's "Promenade Nationale" which will be held in conjunction with the legion's national convention in New Orleans October 16 to 21.

Especially equipped box cars attached to passenger trains will carry the greater part of the 40 men or 8 horses. The cars will be provided with special trucks to run at the speed of the passenger train. Out of thousands of delegates will represent the "forties," local organizations in 40 states.

Traditions of the novel organization are based on recollections of the days when doughboys made

journeys exclusively in the diminutive French box cars. The insignia of the order is the box car of the French railway, which was labeled "chef de gare" is station master; the "chef de train," assistant station master; the "conducteur," the conductor; a "cheminot," a direct train; the "garde de la porte," the guard of the gate; the "garde de prisonnier," the prisoner's guard.

The society was conceived by Joseph W. Hedges of Philadelphia in March, 1920, and received its real start at the Cleveland convention of the Legion in 1920, when a great many of the Pennsylvania delegates made the trip in box cars. Representatives of 143 local organizations met during the American Legion convention at Kansas City last October.

Edward J. Evers of Portland, Ore., is "chef de chemin de fer," or national president.

Members of the Forty and Eight are known by the generic term "voyageurs militaires," or military travelers. Candidates are "prisonniers de guerre," or prisoners of war. A wreathing crew puts on the initiation ceremonies.

Officers are designated by terms used about the railroad stations in France. They know just how the hundreds of widowers who are writing them feel and how a single ray of hope—a hope that the Lovers' Co-operative Union will put them in touch with the right widow among the hundred million souls in the United States—brings cheer to these lonely hearts.

Excerpts from letters just received follow:

"I have read of your wonderful philanthropic work and wish to ask that you kindly file my application. I am 22 years old, an American citizen, I have had a high school education and am domestically inclined. I sing publicly, but not for compensation."

"Save One For Me."

"After you have allotted partners to your Hammonite widowers save one for me. Outside competition may make the Hammonite widowers get busy. Send me the lady's address and I will take up the matter with her."

"I am a nice, refined widow, considered good looking and would like very much to have several correspondents. This might bring me a lot of money. I am very lonely and want some one to love and to be loved in return. I have a lovely disposition, also character."

"I am lonesome, lonesome as can be. Because all widows and widowers are so I think your plan is splendid. Gosh, how the old boys will begin to spruce up now! While there is life there is hope, you know, and besides, all marriage is a lottery. Send me a questionnaire. I want a 100 per cent man matched with my name."

Hair Often Ruined By Careless Washing

Soap should be used very carefully. If you want to keep your hair looking its best, use Santal Midy. It is a mild, refreshing shampoo that cleanses the scalp and keeps the hair soft and shiny. It is the best thing for steady use. It makes an abundance of rich, creamy lather, which rinses out easily, removing every particle of dust, dirt, dandruff and excess oil. The hair dries quickly and evenly, and it leaves the scalp soft, and the hair fine and silky bright. You can get Santal Midy coconut oil shampoo at any pharmacy. It's very cheap, and a few ounces will supply every member of the family for months. Be sure your druggist gives you Santal Midy. —Advertisement.

Stop! Look! and Listen!

Trying to Save Human Lives by Teaching People to Be Careful

Special to The World.
WASHINGTON, July 22.—Important and widespread results all over America are expected as an outcome of the educational campaign now under way to make the public more careful in crossing railroad grade crossings. On the first of June under the direction of the American Railway association in co-operation with all the railroads in the country the slogan "Cross Crossings Cautiously" began to make its appearance from coast to coast in places where the most people would be likely to see it.

The campaign will continue to September 30. Railroad men are hopeful that the constantly reiterated warning "Cross Crossings Cautiously" and the accompanying picture poster—reproduced above—that has been distributed all over the country to the number of 1,200,000 will teach a lasting lesson.

In 1920 about 75 per cent of grade crossing accidents involved automobiles. In 30 years the Nation's population has increased 58 per cent. Crossing accidents have increased 845 per cent in fatal and 632 per cent in injury cases. In 1920, 1,792 persons were killed and 5,077 injured; of the latter 116 died later.

There are two ways of reducing or preventing such accidents. The first is the elimination of crossings. This is impossible. There are about 32,000 highway crossings in the United States, the elimination of which would cost more than \$12,000,000.

Grade crossings are being abolished as fast as feasible but it will take at the present rate, and will take 600 years to dispose of all crossings if no more are added.

The American Railway association.

How to Rid the Arms of Objectionable Hairs
(Aids to Beauty)

A simplified method is here given for the quick removal of hairy or fuzzy growths and rarely is more than one treatment required. Mix a stiff paste with some powdered talc and water, apply to hairy surface and after 2 or 3 minutes rub off, wash the skin and every hair has vanished. This simple treatment cannot cause injury, but care should be exercised to get real talc—Advertisement.

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